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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/733,707	12/08/2000	Pontus Soderstrom	AXISP001	1724

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IP CREATORS  
P. O. BOX 2789  
CUPERTINO, CA 95015

EXAMINER
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MIRZA, ADNAN M

ART UNIT	PAPER NUMBER
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2145

DATE MAILED: 12/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/733,707	<b>Applicant(s)</b> SODERSTROM ET AL.	
	<b>Examiner</b> Adnan M. Mirza	<b>Art Unit</b> 2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al (U.S. 5,745,458) and further in view of Brodersen et al (US. 2002/0112226).

As per claim 1 Oliver disclosed networked optical storage server configured to couple a plurality of user across a network and the networked optical storage server comprising: at least one optical storage media; a network module configured to couple to the network for packet based communication with the plurality of users (col. 6, lines 1-21); at least one memory coupled between the network module and the at least one optical storage media; and a processor coupled to the at least one volatile memory (col. 7, lines 27-35), thereby reducing a number of write operations required to write data to the at least one optical storage media.

However Oliver did not disclose in detail, “configured to coalesce in the volatile memory multiple data packets each associated with a corresponding file or data stream received from the plurality of users into a single corresponding aggregate data packet and to write each data packet to the at least one optical storage media”.

Art Unit: 2145

In the same field of endeavor Brodersen disclosed, “combining the retrieved information and data in accordance DVD Specification. Multiplexer then stored the combined information and data (DVD data stream or VOB file) in output DVD data storage. Layout formatter retrieves the .vob files combine these files into a single “disc image” file, which it then stores in disc image file storage (Page. 4, Paragraph. 0048).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated combining the retrieved information and data in accordance DVD Specification. Multiplexer then stored the combined information and data (DVD data stream or VOB file) in output DVD data storage. Layout formatter retrieves the .vob files combine these files into a single “disc image” file, which it then stores in disc image file storage in the method and system of Oliver by Brodersen to reduce the complexity and time cost and boost the flexibility and access features in the optical disk storage.

3. As per claims 2,9 Oliver-Brodersen disclosed further comprising: the at least one volatile memory including: a first memory for receiving data packets from the plurality of users; a second memory; and the processor further configured to coalesce the received data packets from the first memory into the single corresponding aggregate data packet in the second memory; and to write each aggregate data packet in the second memory to the at least one optical storage media (Oliver, col. 7, lines 36-47).

Art Unit: 2145

4. As per claims 3 Oliver-Brodersen disclosed wherein each aggregate data packet further comprises at least one of: data corresponding with a single file of data from a plurality of the network packets received from a corresponding one of the users; and data corresponding with multiple files of data from the plurality of network packets received from corresponding ones of the users (Brodersen, Page. 8, Paragraph. 0087)).

5. As per claim 4 Oliver-Brodersen disclosed further comprising: a hard drive coupled to the processor; and the processor further responsive to a cache policy selection by an administrative one of the users to cache on the hard drive, a cached copy of a selected one of: directories of corresponding file structures stored on the at least one optical storage media; directories and data stored on the at least on optical storage media (Oliver, col. 5, lines 21-33); and an archived copy of data on the at least one optical storage media' accessible after removal of the at least one optical storage media from the server; thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users (Oliver, col. 6, lines 35-49).

6. As per claim 5 Oliver-Brodersen disclosed a networked optical storage server configured to couple to a plurality of users across a network, and the optical storage server comprising: at least one optical storage media storing files organized in directories for access by the plurality of users; a network module configured to couple to the network for packet based communications with the plurality of users (Oliver, col. 6, lines 1-21); a hard drive and a processor coupled to the hard drive, and the processor responsive to a cache policy selection by an administrative one of

Art Unit: 2145

the users to cache on the hard drive (Oliver, col. 5, lines 48-62), a selected cached copy of: directories of corresponding file structures stored on the at least one optical storage media; directories and data stored on the at least one optical storage media; and an archived copy of data on the at least one optical storage media accessible after removal of the at least one optical storage media from the server; thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users (Brodersen, Page. 4, Paragraph. 0048).

7. As per claim 6 Oliver-Brodersen disclosed a method executed on an optical storage server configured to couple to a plurality of users across a network, comprising the acts of providing at least one optical storage media; coupling to the network for packet based communications with the plurality of users (Oliver, col. 6, lines 1-21); coalescing multiple data packets each associated with a corresponding file or data stream received from the plurality of users into a single corresponding aggregate data packets and writing each aggregate data packet coalesced in the coalescing act to the at least one optical storage media, thereby reducing a number of write operations required to write data to the at least one optical storage media (Oliver, col. 7, lines 12-26).

8. As per claim 7 Oliver-Brodersen disclosed wherein each single corresponding aggregate data packet coalesced in the coalescing act further comprises at least one of: data corresponding with a single file of data from a plurality of the network packets received from a corresponding one of the users; and data corresponding with multiple files of data from the plurality of network packets received from corresponding ones of the users (Brodersen, Page. 4, Paragraph. 0048).

9. As per claim 8 Oliver-Brodersen disclosed method further comprising: providing a hard drive; selecting a cache policy for the caching of data on the hard drive; and caching on the hard drive, responsive to the selection of cache policy (Brodersen, Page. 9, Paragraph. 0100), a cache copy of selected on of directories of corresponding file structures on the at least one optical storage media; directories and data stored on the at least one optical storage media; and an archived copy of data on the at least one optical storage media, accessible after removal of the at least one optical storage media from the server; thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users (Oliver, col. 7, lines 12-26).

### *Conclusion*

10. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (571)-272-3885.

11. The examiner can normally be reached on Monday to Friday during normal business hours. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571)-272-3933. The fax for this group is (703)-746-7239. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Art Unit: 2145

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866)-217-9197 (toll-free).

AM

Adnan Mirza

Examiner

  
JASON CARBONE  
SP5 2145